

145800
422753

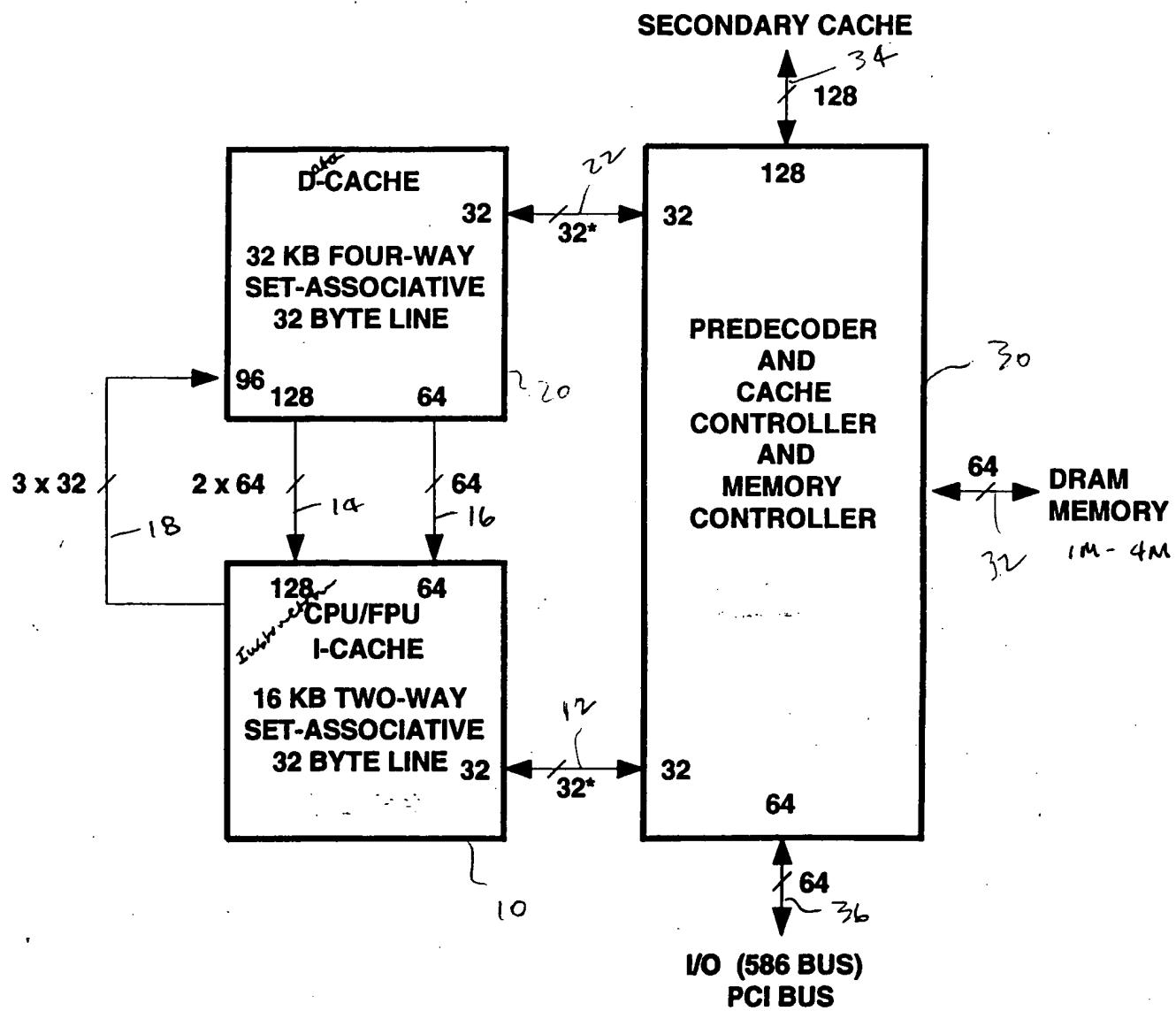


Figure 1

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Figure 2

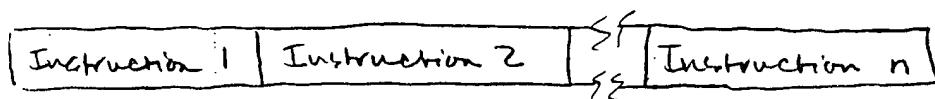


Figure 3

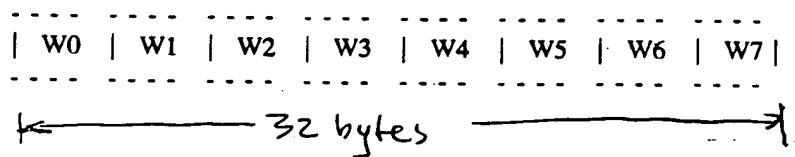


Figure 4

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S = 0 0 0 0 0 0 0 0

| W0 | W1 | W2 | W3 | W4 | W5 | W6 | W7 |

[group 0]

Figure 5a

S = 0 0 1 1 1 0 0 0

| W0 | W1 | W2 | W3 | W4 | W5 | W6 | W7 |

[group 0] [group 1] [group 2]

Figure 5b

S = 0 1 0 1 0 1 0 1

| W0 | W1 | W2 | W3 | W4 | W5 | W6 | W7 |

[g0] [g1] [g2] [g3] [g4] [g5] [g6] [g7]

Figure 5c

63 59 56 0

| P | S | INSTRUCTION |

4 3 57

Figure 6

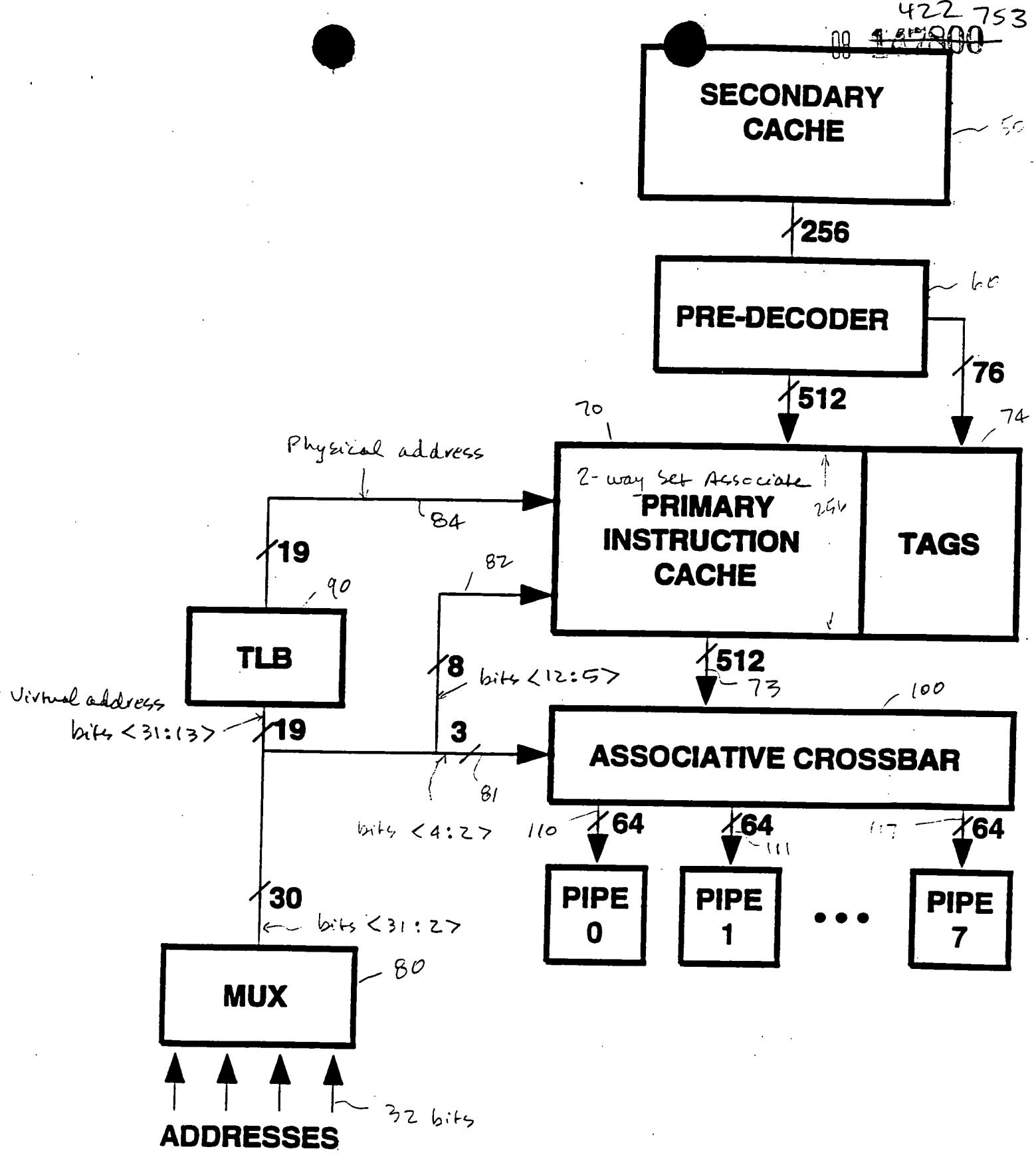


Figure 8

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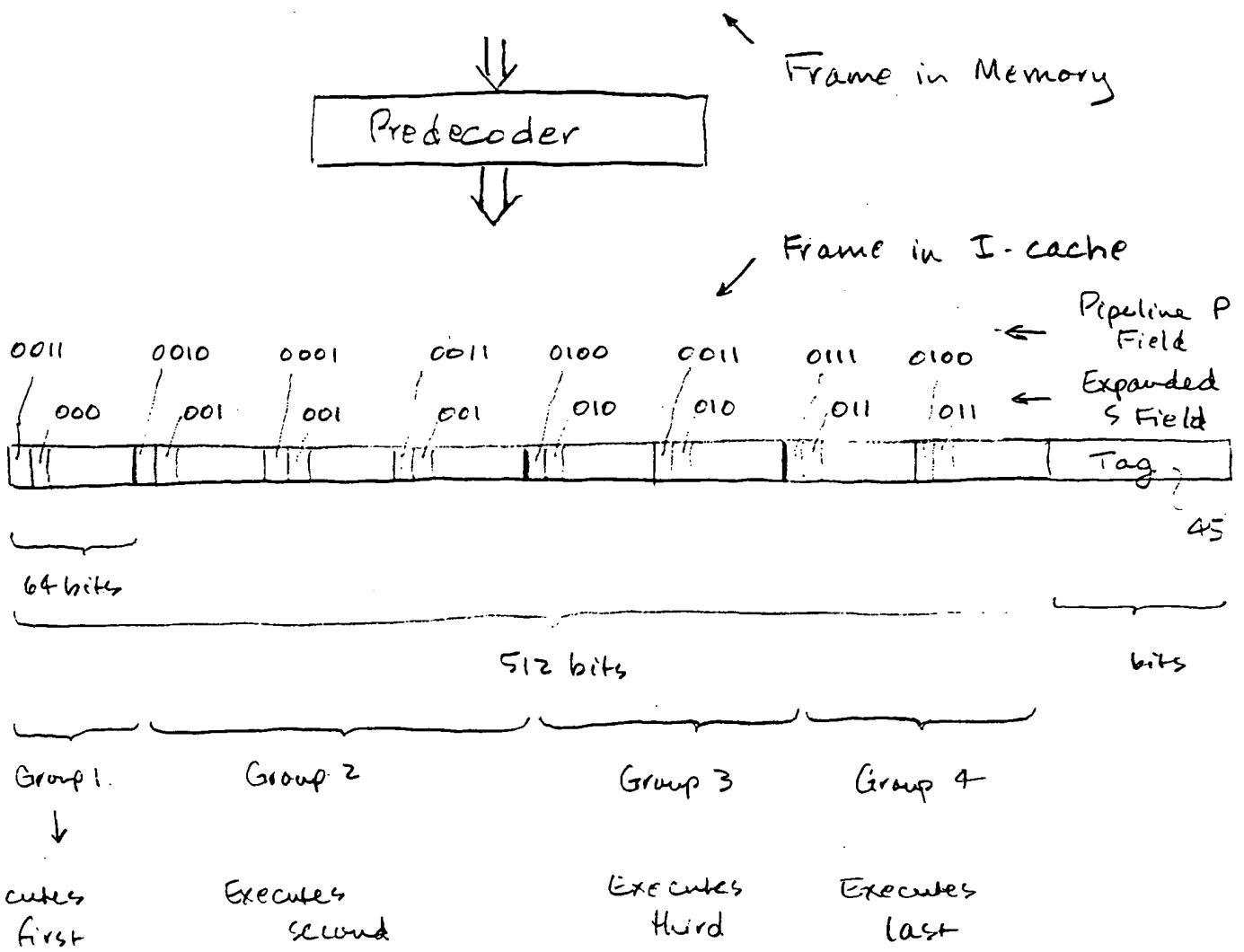
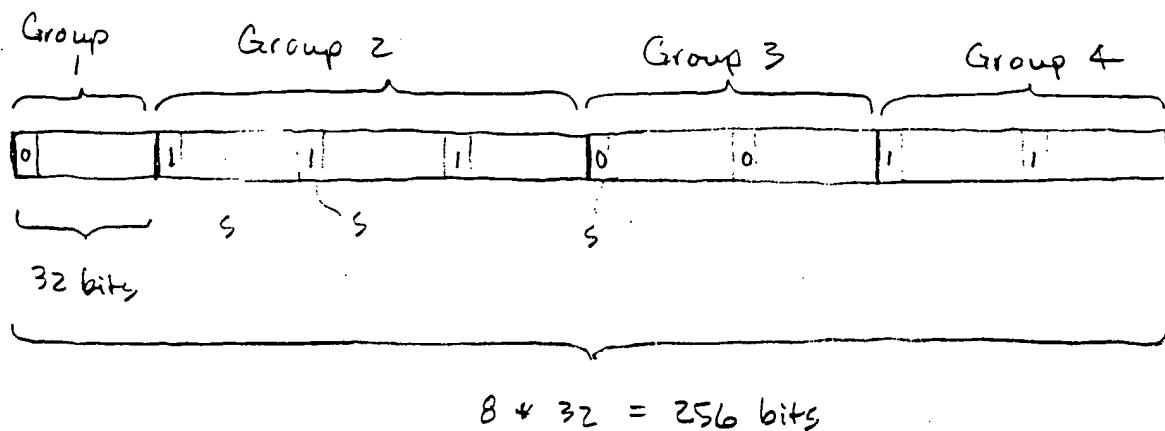


Figure 7

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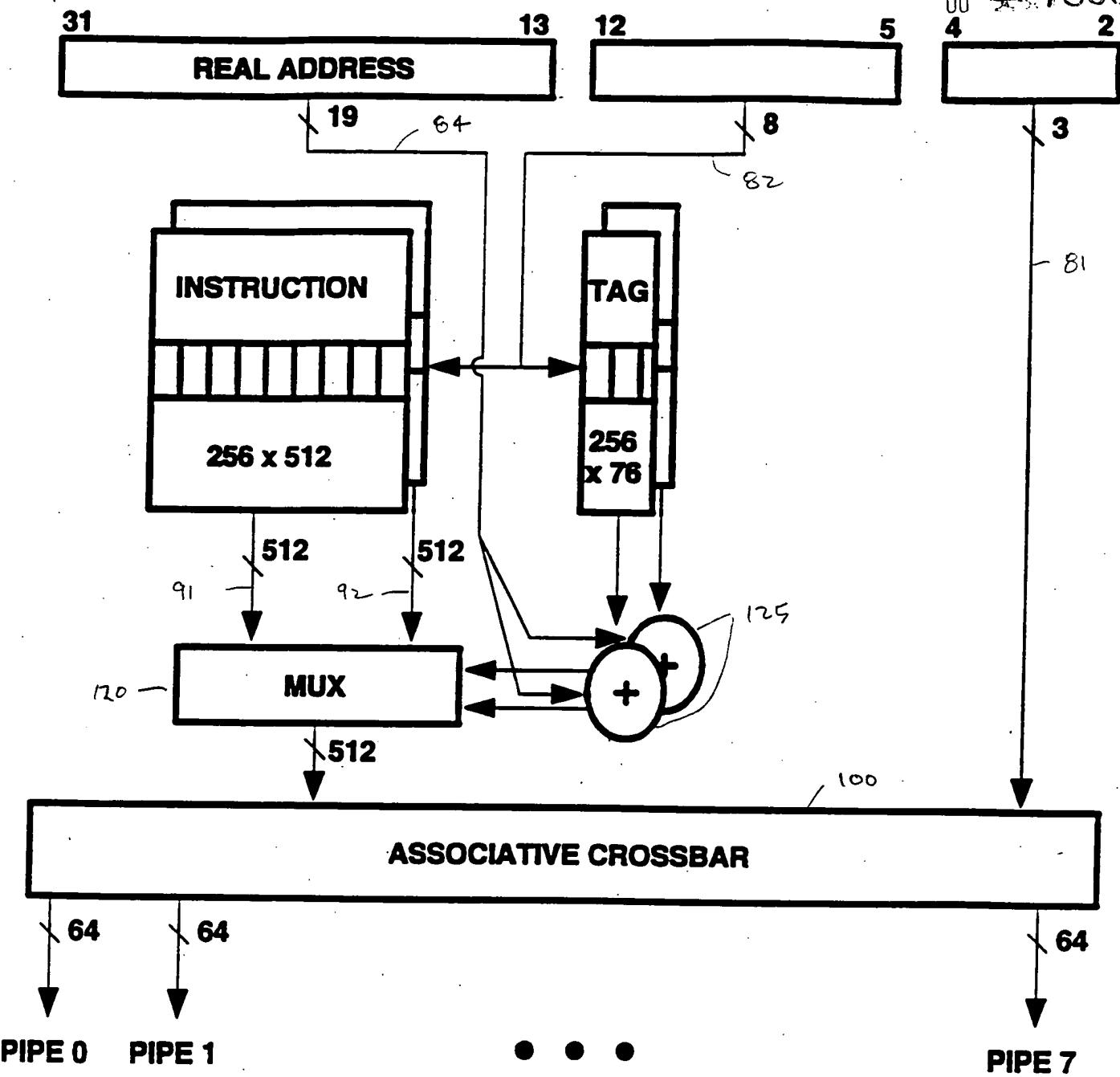


Figure 9

From Figure 9

8
1

$$\begin{array}{r}
 145 \\
 - 1 \\
 \hline
 144
 \end{array}$$

Group 0

S	PS	PS	PS	PS	PS	PS	PS	PS	PS
0	W/0	2	0	W/1	3	0	W/2	1	1
1	W/3	3	1	W/3	3	1	W/4	6	1
2	W/5	4	1	W/5	4	1	W/6	6	2
3	W/7	5	2	W/7	5	2	W/6	6	2

130 —

Figure 11

140

8:1 MUX

- 142

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100

SREG RESET

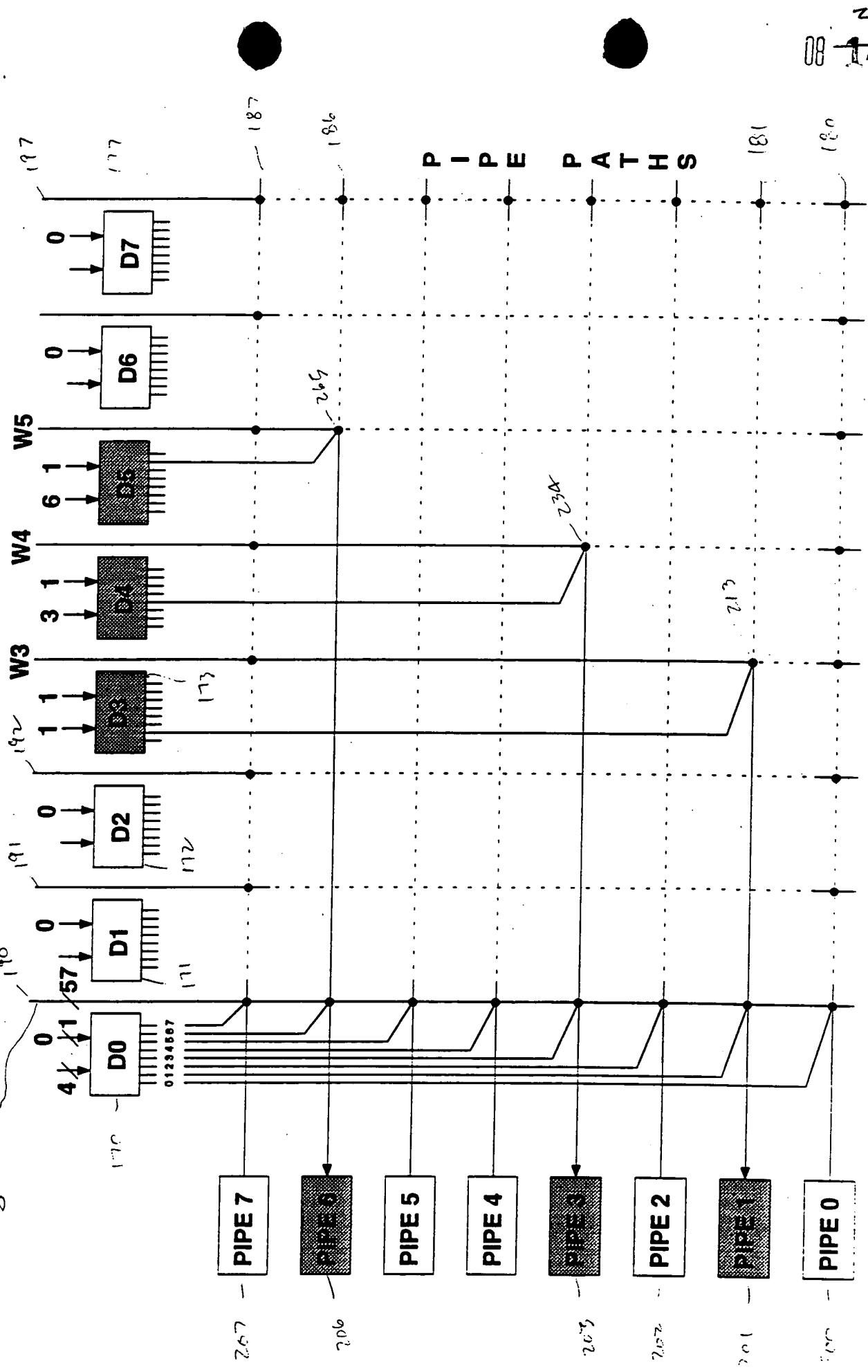
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Figure 10

from Figure 10

INSTRUCTION WORD PATHS



ALU	ALU	LOAD	STORE	LOAD	FP	FP	Br
-----	-----	------	-------	------	----	----	----

0	0	0	0	1	1	1	2
---	---	---	---	---	---	---	---

Group Tag

Figure 12

CLOCK 1 -	ALU	ALU	LOAD	STORE
CLOCK 2 -	LOAD	FP	FP	
CLOCK 3 -	BRANCH			

Figure 13

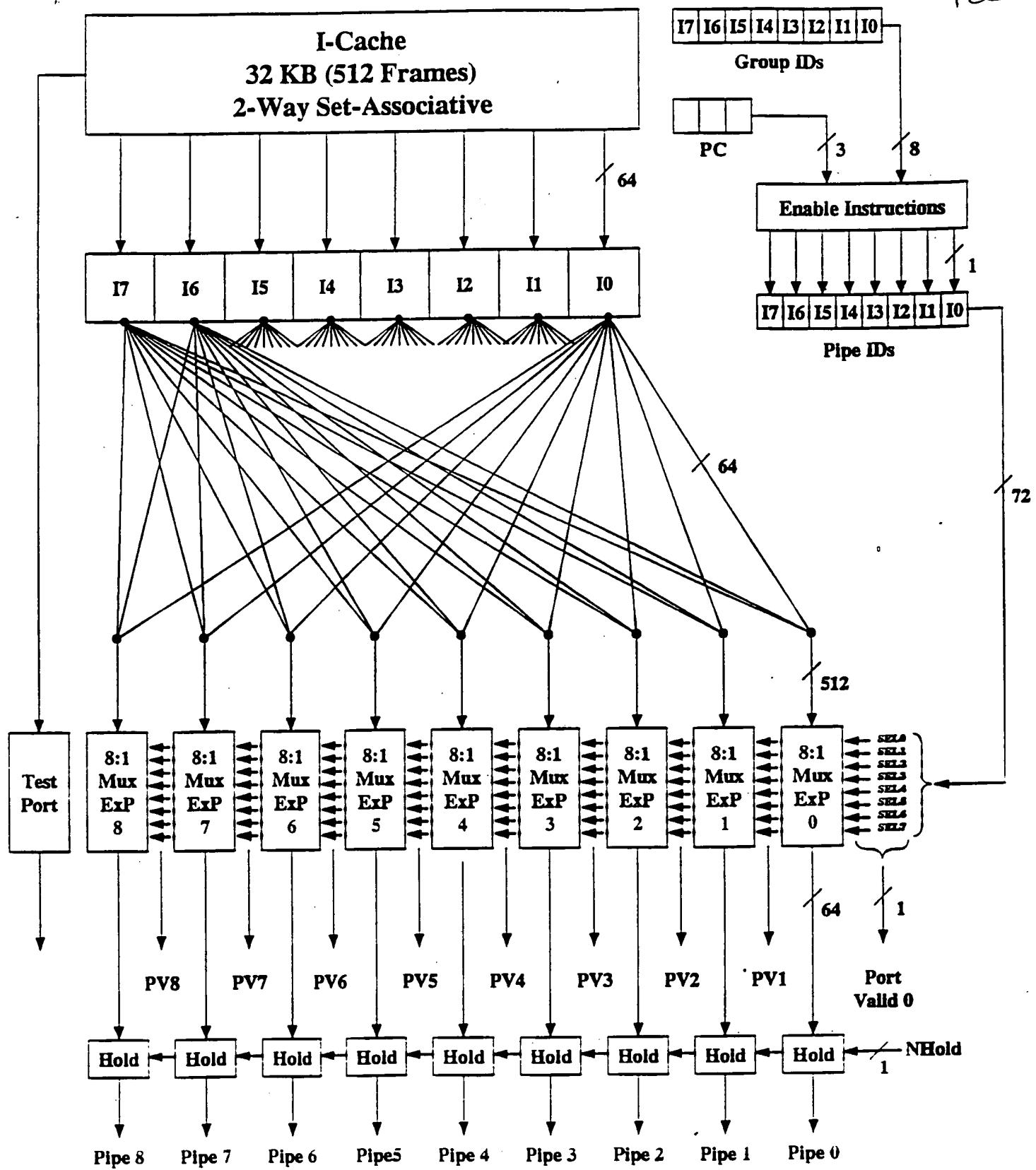


Figure 14-

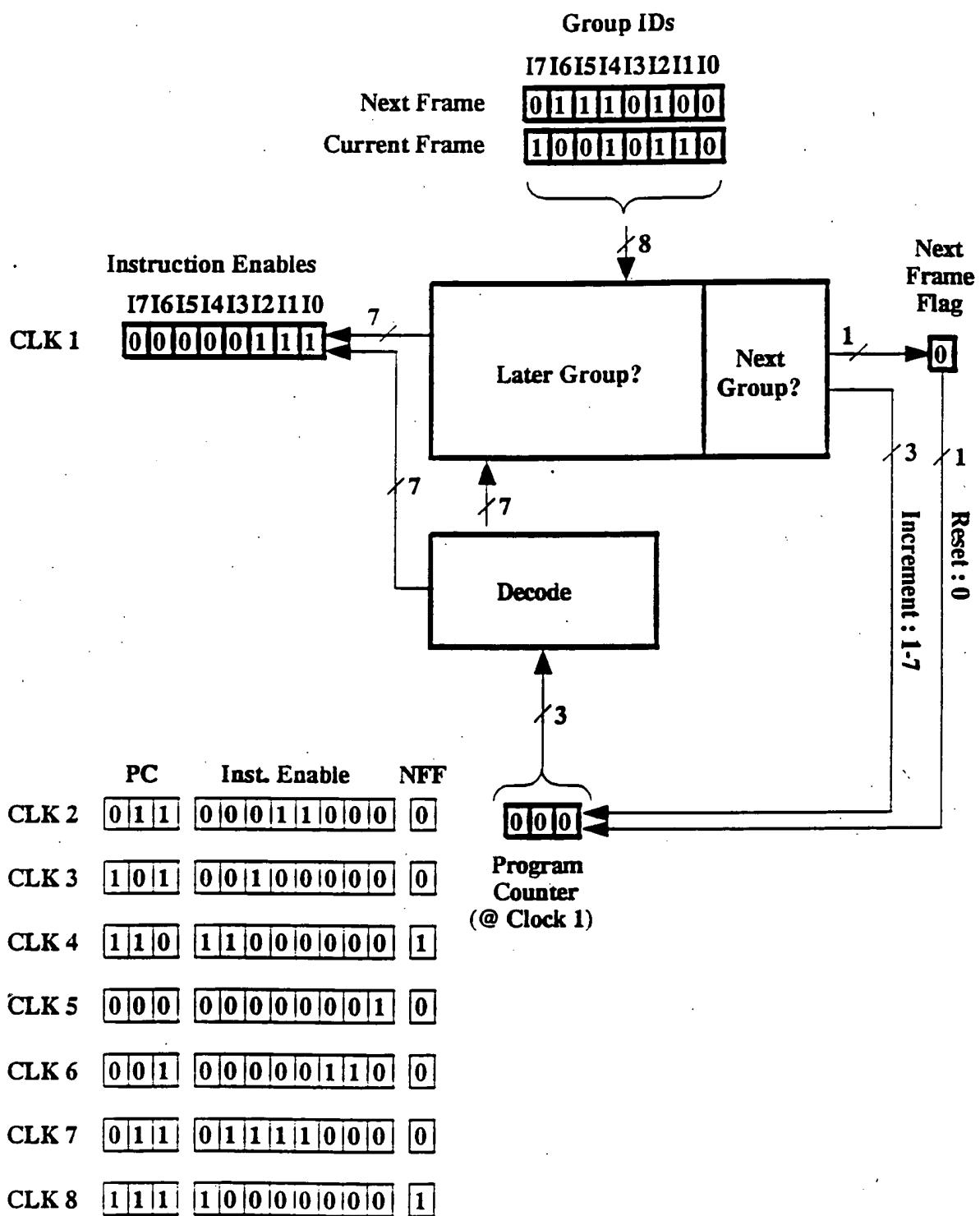


Figure 15